

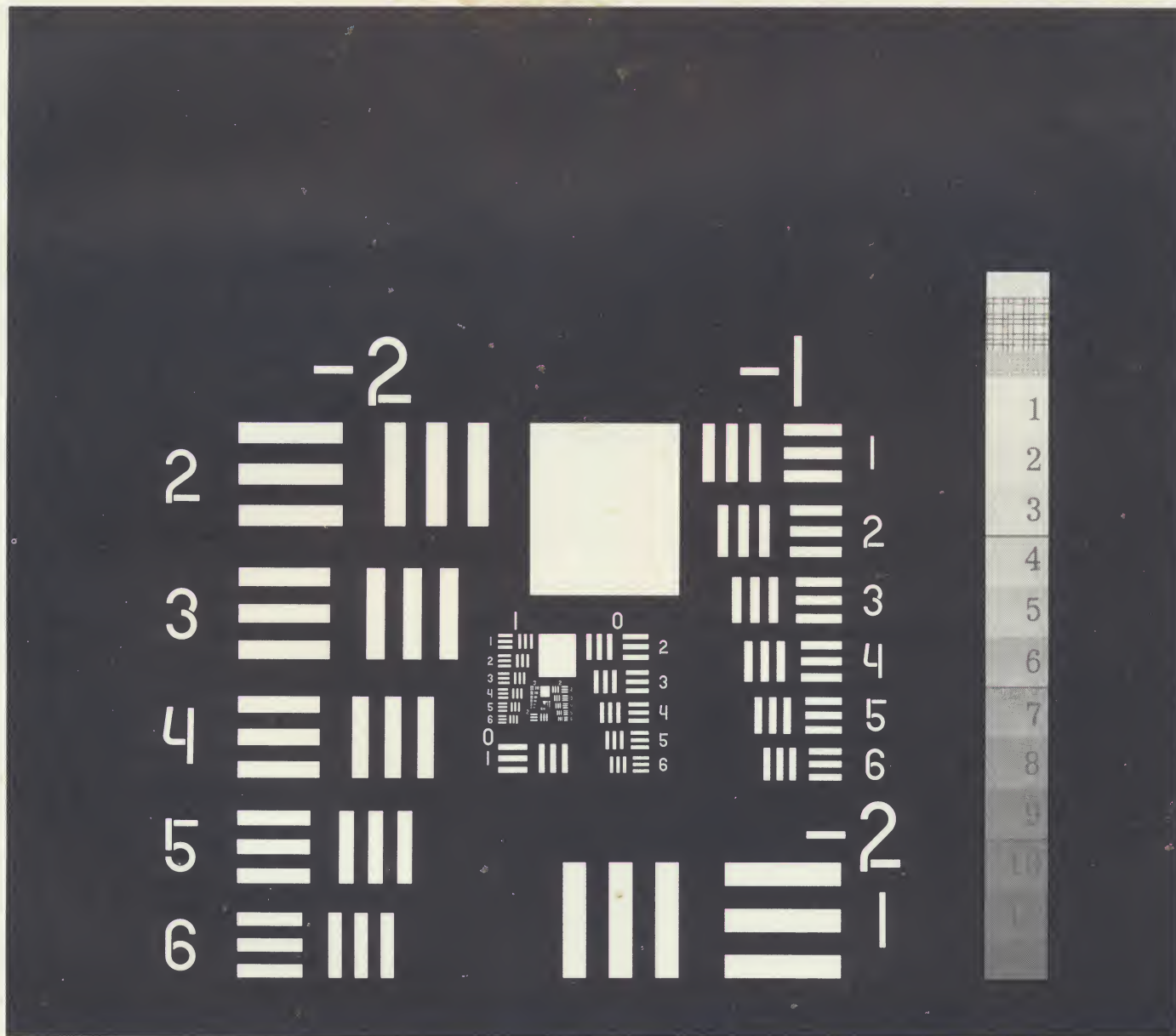


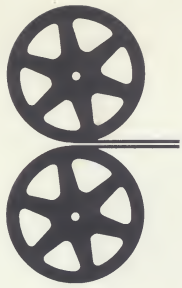
CBS LABORATORIES

**DIAZO
MICROFILM
DUPLICATING
EQUIPMENT**



CBS LABORATORIES
STAMFORD, CONNECTICUT
A DIVISION OF COLUMBIA
BROADCASTING SYSTEM, INC.





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Model 303

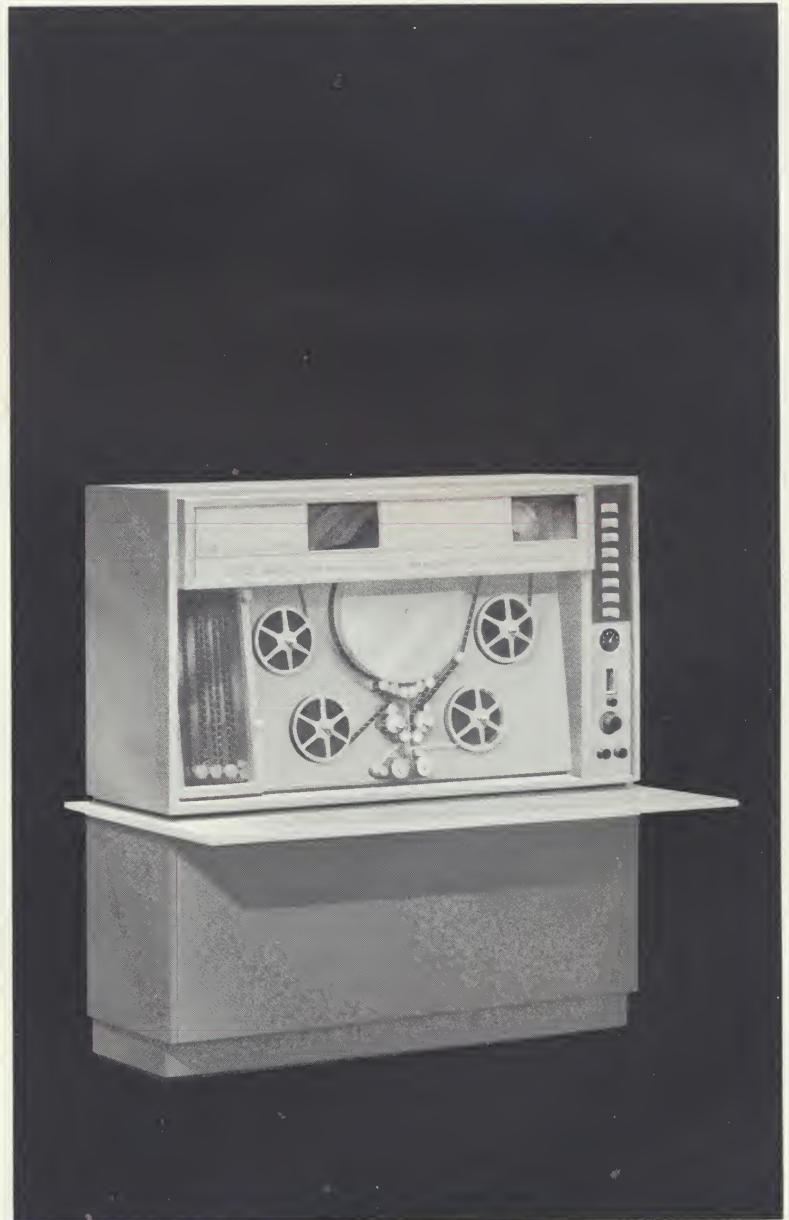
DIAZO MICROFILM DUPLICATOR Roll-to-Roll

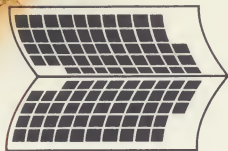
The CBS Laboratories Model 303 roll-to-roll film duplicator combines revolutionary new concepts in film handling and developing to produce diazo microfilm duplicates at speeds up to 50 feet per minute and with resolution in near-unity as high as 500 lines per millimeter.

Unlike anything now available, this new equipment has an optical system which supplies 2400 watts of UV energy on a periphery absolutely perpendicular with the curved surface of the printing drum. The film transport system is also unique—it employs a dynamic capstan action and constant tension arrangement which assures ultra-high resolution by holding moving film surfaces in intimate contact to tolerances of 7 to 12 millimicrons.

Outstanding Model 303 features:

- An electronically controlled drive system coupled with a tachometer to allow accurate repetitive control.
- Translucent drums and mirrors for continuous inspection of both master and processed diazo duplicates.
- An automatic anhydrous ammonia developing system which eliminates the usual residual fog on processed diazo film.
- A constant torque control system featuring hysteresis clutches and brakes for infinite torque control to one inch-ounce.





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Model 601

DIAZO MICROFILM DUPLICATOR Card-to-Card

The CBS Laboratories Model 601 card-to-card duplicator is a rotary type printer-processor designed for the diazo duplication of microfiche and other non-rigid cut films wherever high resolution of micro-images is required. Like the Model 303, this equipment uses totally new concepts in the transport and optical systems and is a completely self-contained diazo film printer-processor.

Outstanding Model 601 features:

- A film pick-off and separation system which automatically separates the original from the copy and routes the original back to the operator while sending the exposed film on through the developing section.
- A super-cooled printing cylinder which may be cleaned while the machine is operating.
- A scratch-free film handling system.
- Near-unity resolution capabilities as high as 300 lines per millimeter.
- A 19-inch printing width which quadruples the productive output of conventional single track systems.
- An automatic anhydrous ammonia developing system which eliminates the usual residual fog on processed diazo film.



Specifications



Model 303

Roll-to-Roll Duplicator

FILM SIZE: 16mm or 35mm.

CAPACITY: 1000-foot supply and take-up.

LAMP AND OPTICAL SYSTEM: 2400 watt UV system radiating through six precision fused quartz optical systems.

DEVELOPING: Completely automatic anhydrous ammonia recirculation system designed to eliminate residual film fog.

FILM LOADING: Convenient front loading with room light operation.

SPEED: Continuously variable; producing optimum duplicates up to 50 feet per minute.

VENTING: Self-contained blower connects to standard 3-inch ducting.

SIZE: 64" wide; 63½" high; 33" deep.

POWER REQUIREMENTS: 220 Volts AC, Single Phase, 30 Amps.

CONTROLS AND GAUGES: Electronic speed controls; Automatic thermostat; F.P.M. Tachometer; Indicating switches and fuses; Anhydrous flowmeter; Illuminated inspection rollers; Torque control gauges.



Model 601

Card-to-Card Duplicator

FILM SIZE: Standard microfiche and all other non-rigid cut films in groups up to 19 inches wide and 9 inches long.

LAMP AND OPTICAL SYSTEM: Two precision optical-mechanical UV collimators radiating a total of 6000 watts.

DEVELOPING: Completely automatic anhydrous ammonia recirculating system designed to eliminate residual film fog.

SPEED: Synchronized, continuously variable printing and developing speeds.

VENTING: Self-contained blower connects to standard 6-inch ducting.

SIZE: 34½" wide; 38" high; 35" deep.

POWER REQUIREMENTS: 220 Volts AC, Single Phase, 34-40 Amps.

CONTROLS AND GAUGES: Electronic speed controls; Automatic thermostats; Anhydrous flowmeter; Manual system switching.

FILM SEPARATION: Automatic.

PRODUCTION CAPACITY: 5 x 8 microfiche (3 up)—21 cards per minute; 4 x 6 microfiche (4 up)—40 cards per minute.

Note: Based on operation at 5 lineal feet per minute which encompasses most normal exposures.

CBS Laboratories' unique research and development capabilities are available for the custom design of systems and equipment in the broad field of diazo technology. For further information, please call or write:

CBS LABORATORIES

Stamford, Connecticut

A Division of Columbia Broadcasting System, Inc.



CBS LABORATORIES

STAMFORD, CONNECTICUT

A DIVISION OF COLUMBIA BROADCASTING SYSTEM, INC.



We hope that the enclosed literature will provide the information you need. If you want more specific information about any of our products, or if you want one of our representatives to contact you, please fill out the attached card and return it to us.

Thank you for your interest in CBS Laboratories.

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